## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 September 2005 (15.09.2005)

**PCT** 

## (10) International Publication Number WO 2005/085037 A1

(51) International Patent Classification<sup>7</sup>:

B62D 1/10

(21) International Application Number:

PCT/SE2005/000018

(22) International Filing Date: 11 January 2005 (11.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(**30**) Priority Data: 0405421.9

.9 10 March 2004 (10.03.2004) GB

- (71) Applicant (for all designated States except US): AUTO-LIV DEVELOPMENT AB [SE/SE]; S-447 83 Vårgårda (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHAPELAIN, Etienne [FR/FR]; 48 bis, rue Joseph Zamanski, F-86440 Migne-Auxances (FR). CHEBRET, Romain [FR/FR]; 1 bis, Venelle des Maures, F-86170 Cisse (FR). GALMICHE, Fabrice [FR/FR]; 5, rue de l'abbé Sieyès, Appt. 39, F-86000 Poitiers (FR). GROLEAU, Laurent [FR/FR]; 1, rue de la République, F-86190 Latille (FR). BERTRAND, Olivier [FR/FR]; Le Bourg, F-16240 Courcôme (FR).

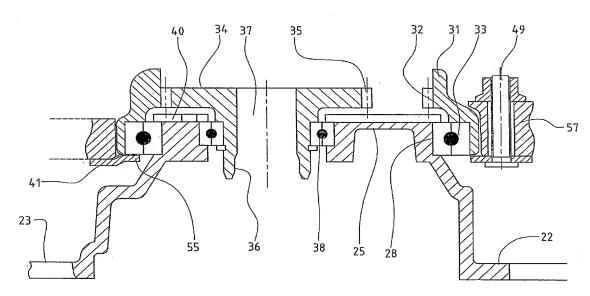
- (74) Agent: MEULLER, Erik; Autoliv Development AB, S-447 83 Vårgårda (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A STEERING WHEEL ARRANGEMENT



(57) Abstract: A steering wheel arrangement is disclosed which incorporates a fixed element (20). The fixed element carries a first annular bearing (33) which supports a steering wheel for rotation relative to the fixed element (20). The fixed element also carries a second bearing (38) which rotatably supports a component to be connected to part of the steering column of a motor vehicle. Each of the bearings are retained, to the fixed element (20), by means of a first resilient retaining element (40), and the first bearing (33) is also retained to the steering wheel by a second resilient retaining element (41).